

Set	Items	Description
S1	0	"TRAVEL DISTANCE" AND GPS? AND (ALARM? OR WA
S2	0	"TRAVEL DISTANCE" AND GPS? AND (ALARM? OR WA
S3	0	(TRAVEL? (3N) DISTANCE) AND GPS? AND (ALARM?
S4	64	(TRAVEL? (3N) DISTANCE) AND GPS?
S5	0	(TRAVEL? (3N) DISTANCE) AND GPS? AND EXCEED?
S6	0	(COMPUT? (S) (TRAVEL? (3N) DISTANCE)) AND GP
S7	11	(COMPUT? (S) (TRAVEL? (3N) DISTANCE)) AND GP
S8	9	RD (unique items)
S9	0	(DEFORMED (2N) MAP?) AND ROAD AND SECTION? A
S10	0	(DEFORMED (2N) MAP?) AND ROAD AND SECTION?
S11	5	(DEFORMED (2N) MAP?) AND SECTION?
S12	3	RD (unique items)
S13	0	(MOVING (2N) QUER?) AND (BOUND? (2N) BOX?) A DIRECTION?
S14	0	(MOVING (2N) QUER?) AND (BOUND? (2N) BOX?) A DIRECTION?
S15	3	(MOVING (2N) QUER?) AND (BOUND? (2N) BOX?)
S16	3	S15 AND INDEX?
S17	1	S16 AND (QUER? (2N) INDEX?)
?		

T S15/3,KWIC/1-3

**15/3,KWIC/1 (Item 1 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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07970660 E.I. No: EIP06169825180

**Title: Processing moving queries over moving  
motion-adaptive indexes**

Author: Gedik, Bugra; Liu, Ling

Corporate Source: College of Computing Georgia Institute  
Atlanta, GA 30332-0280, United States

Source: IEEE Transactions on Knowledge and Data Engineeri  
2006. p 651-668

Publication Year: 2006

CODEN: ITKEEH ISSN: 1041-4347

DOI: 10.1109/TKDE.2006.81

Language: English

**Title: Processing moving queries over moving  
motion-adaptive indexes**

Abstract: This paper describes a motion-adaptive indexing  
efficient evaluation of moving continual queries (MCQs)  
objects. It uses the concept of motion-sensitive bounding  
to model moving objects and moving queries. These boun  
automatically adapt their sizes to the dynamic motion behavi  
individual objects. Instead of indexing...

...object positions, we index less frequently changing obje  
MSBs, where updates to the bounding boxes are needed on  
and queries move across the boundaries of their boxes. T  
decrease the number of updates to the indexes. More importan  
predictive...

...to optimistically precalculate query results, decreasing  
searches on the indexes. Motion-sensitive bounding boxes  
incrementally update the predictive query results. Furthermo  
introduce the concepts of...

...show that the proposed motion-adaptive indexing scheme i  
the evaluation of both moving continual range queries a  
continual kNN queries. copy 2006 IEEE. 32 Refs.

Identifiers: Moving object databases; Spatio-temporal inde  
queries; Motion-sensitive bounding boxes (MSBs)

T S17/3,KWIC/1

**17/3,KWIC/1 (Item 1 from file: 8)**

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Abstract: This paper describes a motion-adaptive indexing efficient evaluation of moving continual queries (MCQs) objects. It uses the concept of motion-sensitive bounding to model moving objects and moving queries. These boun automatically adapt their sizes to the dynamic motion behavi individual objects. Instead of indexing frequently changin positions, we index less frequently changing object and qu where updates to the bounding boxes are needed only when queries move across the boundaries of their boxes. This the number of updates to the indexes. More importantly, we predictive query results to optimistically precalculate quer decreasing the number of searches on the indexes. Motion-bounding boxes are used to incrementally update the predi results. Furthermore, we introduce the concepts of guarante and optimistic safe radius to extend our motion-adaptive i to evaluating moving continual k-nearest neighbor (kNN) que experiments show that the proposed motion-adaptive indexin efficient for the evaluation of both moving continual ran and moving continual kNN queries. copy 2006 IEEE. 32 Re

Identifiers: Moving object databases; Spatio-temporal ind Continual queries; Motion-sensitive bounding boxes (MS ?

Identifiers: Moving object databases; Continual queries; M  
bounding boxes (MSB); Indexing

**15/3,KWIC/3 (Item 3 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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06460510 E.I. No: EIP03307561484

**Title: Trajectory queries and octagons in moving object dat**

Author: Zhu, Hongjun; Su, Jianwen; Ibarra, Oscar H.

Corporate Source: Department of Computer Science Univ. o  
Santa Barbara, Santa Barbara, CA, United States

Conference Title: Proceedings of the Eleventh Internationa  
Information and Knowledge Management (CIKM 2002)

Conference Location: McLean, VA, United States Co  
20021104-20021109

E.I. Conference No.: 61158

Source: International Conference on Information and Knowle  
Proceedings 2002. p 413-421

Publication Year: 2002

Language: English

Abstract: An important class of queries in moving obje  
involves trajectories. We propose to divide trajectory pred  
topological and non-topological...

...databases, approximations of trajectories are typically  
evaluating trajectory queries. In earlier studies, minimum  
boxes (MBBs) are used to approximate trajectory segments w  
index structures to be built, e...

?

**15/3,KWIC/2 (Item 2 from file: 8)**

DIALOG(R)File 8: Ei Compendex(R)

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07418360 E.I. No: EIP05219121495

**Title: Motion adaptive indexing for moving continual queri  
objects**

Author: Gedik, Bugra; Wu, Kun-Lung; Yu, Philip; Liu, Ling

Corporate Source: Georgia Institute of Tech., Atlanta, GA,

Conference Title: CIKM 2004: Proceedings of the Thirteenth  
on Information and Knowledge Management

Conference Location: Washington, DC, United States C  
20041108-20041113

E.I. Conference No.: 64711

Source: International Conference on Information and Knowle  
Proceedings CIKM 2004: Proceedings of the Thirteenth AC  
Information and Knowledge Management 2004.

Publication Year: 2004

Language: English

**Title: Motion adaptive indexing for moving continual  
moving objects**

Abstract: This paper describes a motion adaptive indexing  
efficient evaluation of moving continual queries (MCQs)  
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MSBs, where updates to the bounding boxes are needed on  
and queries move across the boundaries of their boxes . T  
decrease the number of updates to the indexes. More importan  
predictive...

...to optimistically precalculate query results, decreasing  
searches on the indexes. Motion-sensitive bounding boxes  
incrementally update the predictive query results. Our exper  
that the proposed motion adaptive indexing scheme is effici  
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Refs.